

*Demo
prepared by :*



*Demo
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WELCOME
to
The Land Use Database :

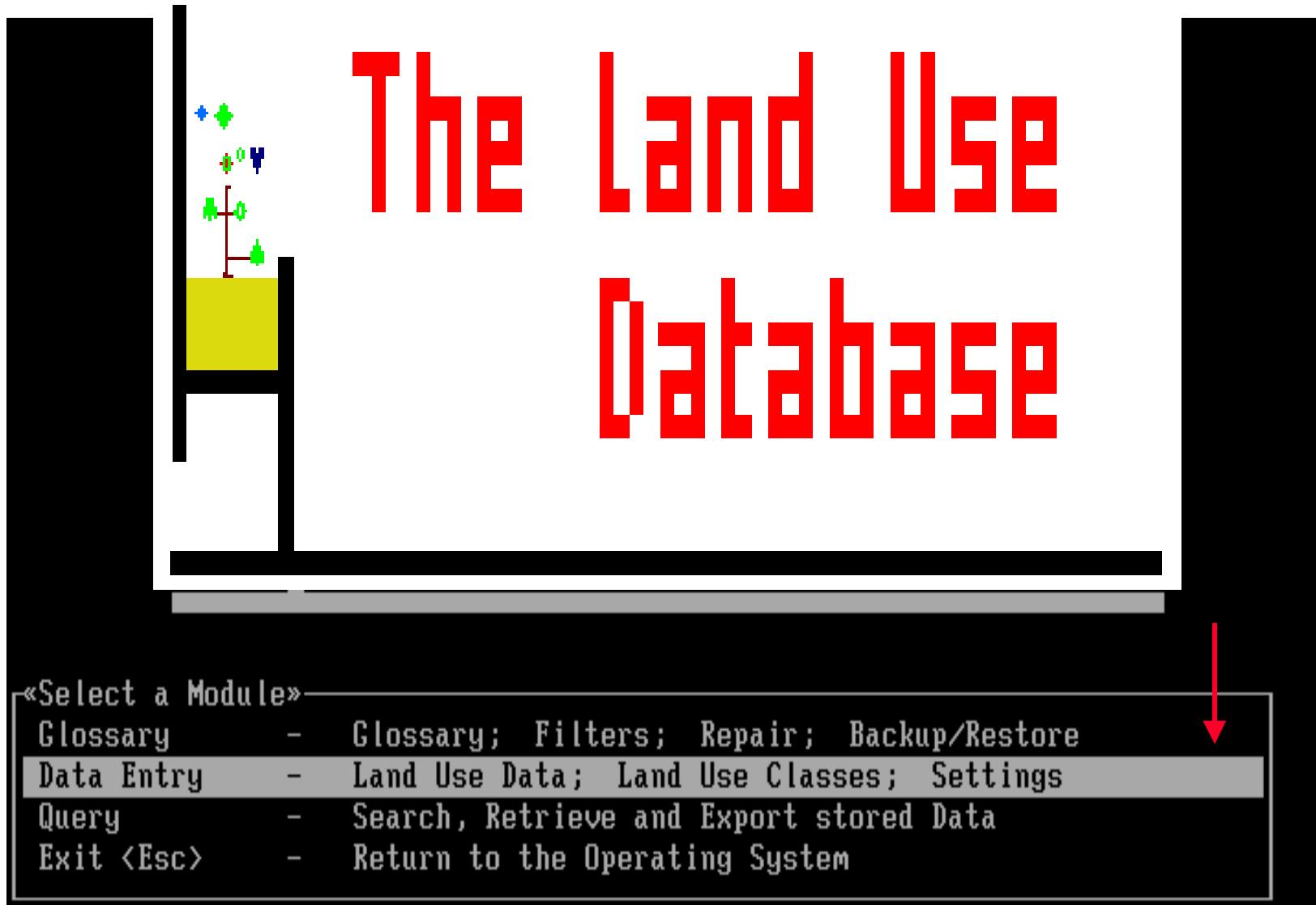
*Demo-4 :
Land Use Classes*

Shown is how to define Land Use Classes

Emphasis is put on the following software aspects :

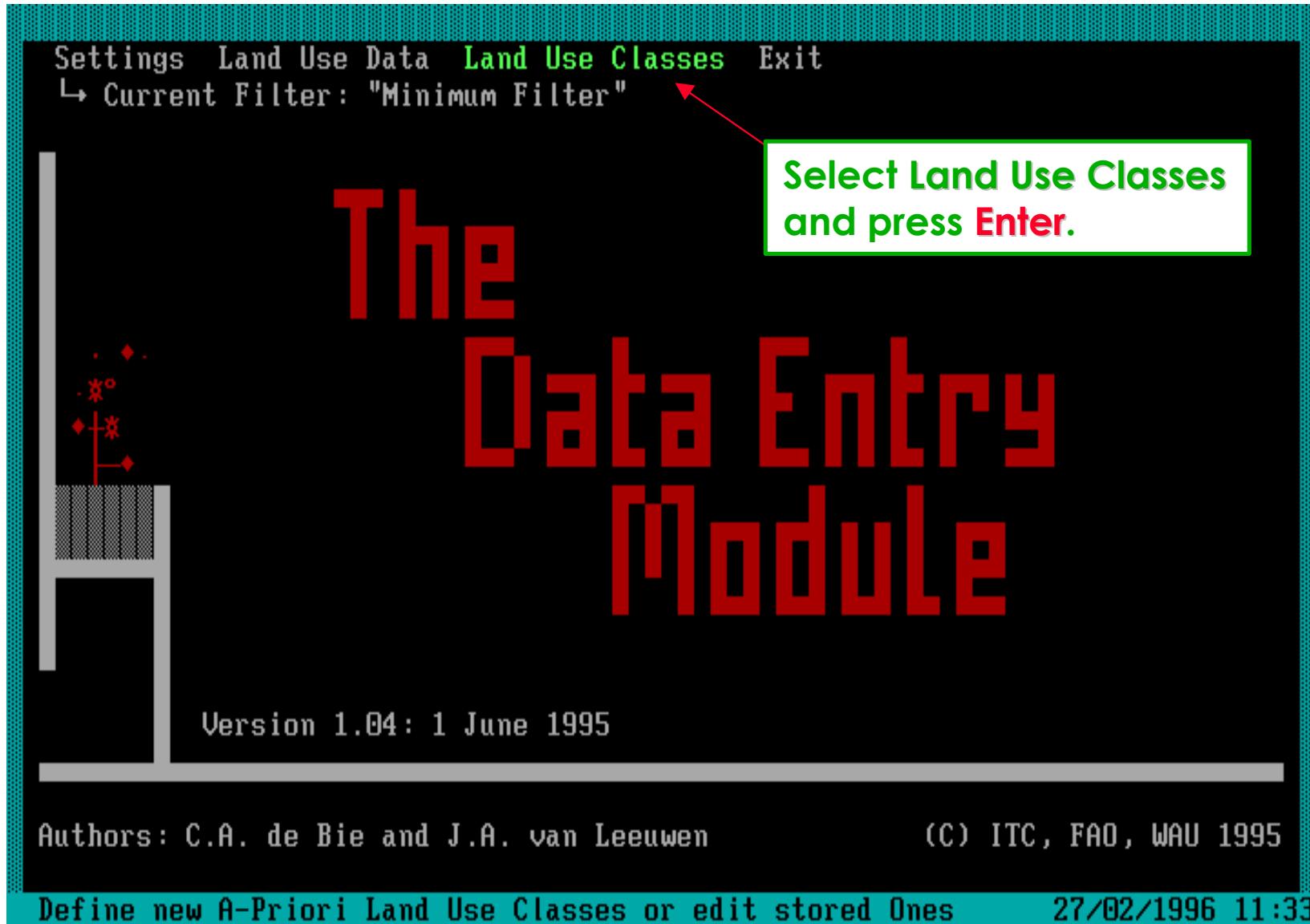
- 1 The structure of Land Use Classification Systems.**
- 2 Add a new Land Use Classification System.**
- 3 Add a new Land Use Class.**
- 4 Land Use Purpose Classifiers.**
- 5 Operation Sequence and Context Classifiers.**
- 6 Printing Land Use Classes.**

First of all, select the **Data Entry** option of the **Main Menu**.



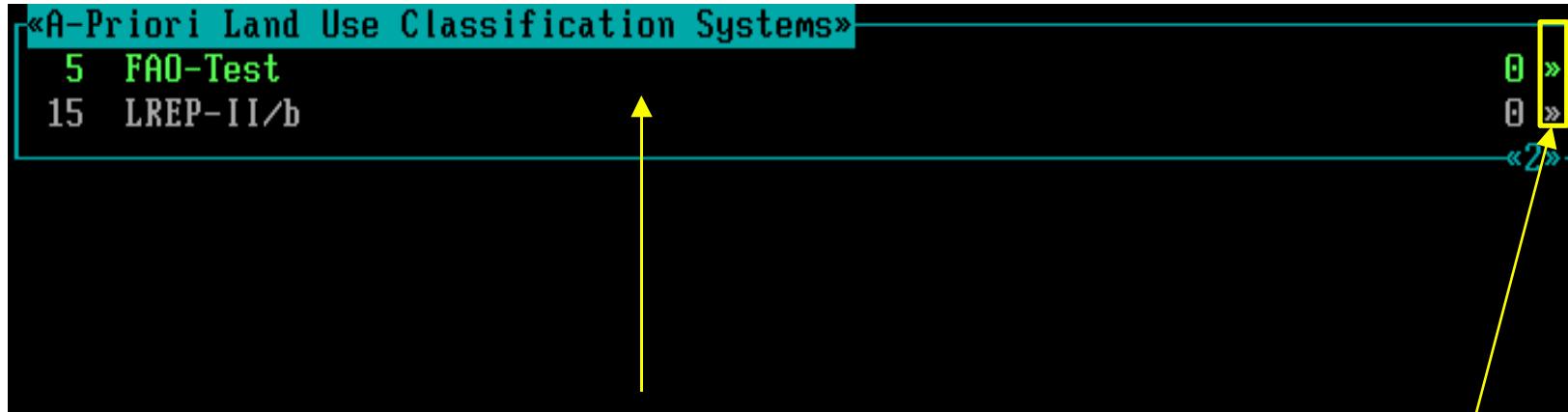
Software aspect no.-1 :

- 1 **The structure of Land Use Classification Systems.**
- 2 **Add a new Land Use Classification System.**
- 3 **Add a new Land Use Class.**
- 4 **Land Use Purpose Classifiers.**
- 5 **Operation Sequence and Context Classifiers.**
- 6 **Printing Land Use Classes.**



Use **Land Use Classes** in the Main Menu to enter/edit classes.

This picklist is the entry point to edit Land Use Classes.



This picklist contains a list of the names of earlier specified a-priori Land Use Classification Systems. A-priori means that they are based on existing knowledge or on the survey objectives.

At lower level picklists the names of entered land use classes are listed

Many options are made available . . .

F1=Help F3=Print F4=Search F10=Edit Enter=Select Ins=Add Del=Delete

When you press **Enter** the first list of defined classes appears.

«A-Priori Land Use Classification Systems»	
«FAO-Test»	
1	Single Cropping of Cereals
2	Sequential Double Cropping of Cereals-Cereals
3	Sequential Double Cropping Cereals-Vegetables
4	Sequential Double Cropping Cereals-Pulses
5	Sequential Double Cropping Cotton-Cereals
6	Single cropping of Cotton
7	Single Cropping of Pulses
8	Single Cropping of Vegetables or Potatoes
9	Sequential Cropping of Vegetables and/or Potatoes
10	Single Cropping of Cassava
11	Single Crop
12	Single crop
13	Mixed-Inter
14	Row-Intercr.of Cereal+Pumpkin/Melons/Pulse/Sw.Reed
15	Ratoon Cropping of Sugarcane (< 2 yrs)
16	Ratoon Cropping of Sugarcane (> 2 yrs)
17	Forage Production for Feed
18	Grazing on Unimproved Communal lands
19	Single cropping of Sunflower
20	Sequential Double Cropping Pulses-Vegetables

The Classification system may consist of a flat list of Land Use Classes, or . . .

«A-Priori Land Use Classification Systems»	
«LREP-II/b»	The name of the selected Land Use Classification System
«Sawah; Paddy; Rice/S.Cane/Tobacco/Veget./....»	
«Irigasi; Irrigated»	
5 2xPadi dan Lebih; 2xRice or more	0
10 1xPadi + Palawija; 1xRice + Other Crop	0
15 1xPadi; 1xRice	0
10 20 Tebu,tembakau,rosela,sayur,;Non-rice crops	0 »
11	«4»
111 test	0
	«8»

The names of entered land use classes

... the Classification system may consist of a **hierarchy of Land Use Classes**.

The classes go from general to more specific.

F1=Help F3=Print F4=Search F10=Edit Enter=Select Ins>Add Del=Delete

A large number of Classification systems can thus be specified !!

Software aspect no.-2 :

- 1 The structure of Land Use Classification Systems.
- 2 **Add a new Land Use Classification System.**
- 3 Add a new Land Use Class.
- 4 Land Use Purpose Classifiers.
- 5 Operation Sequence and Context Classifiers.
- 6 Printing Land Use Classes.

Insert is pressed at the first level to specify a new Classif. System.

«A-Priori Land Use Classification Systems»	
5 FAO-Test	0 »
15 LREP-II/b	0 »
	«2»

Item number 20 will be added

Press F10 to save the name of the specified classification system.

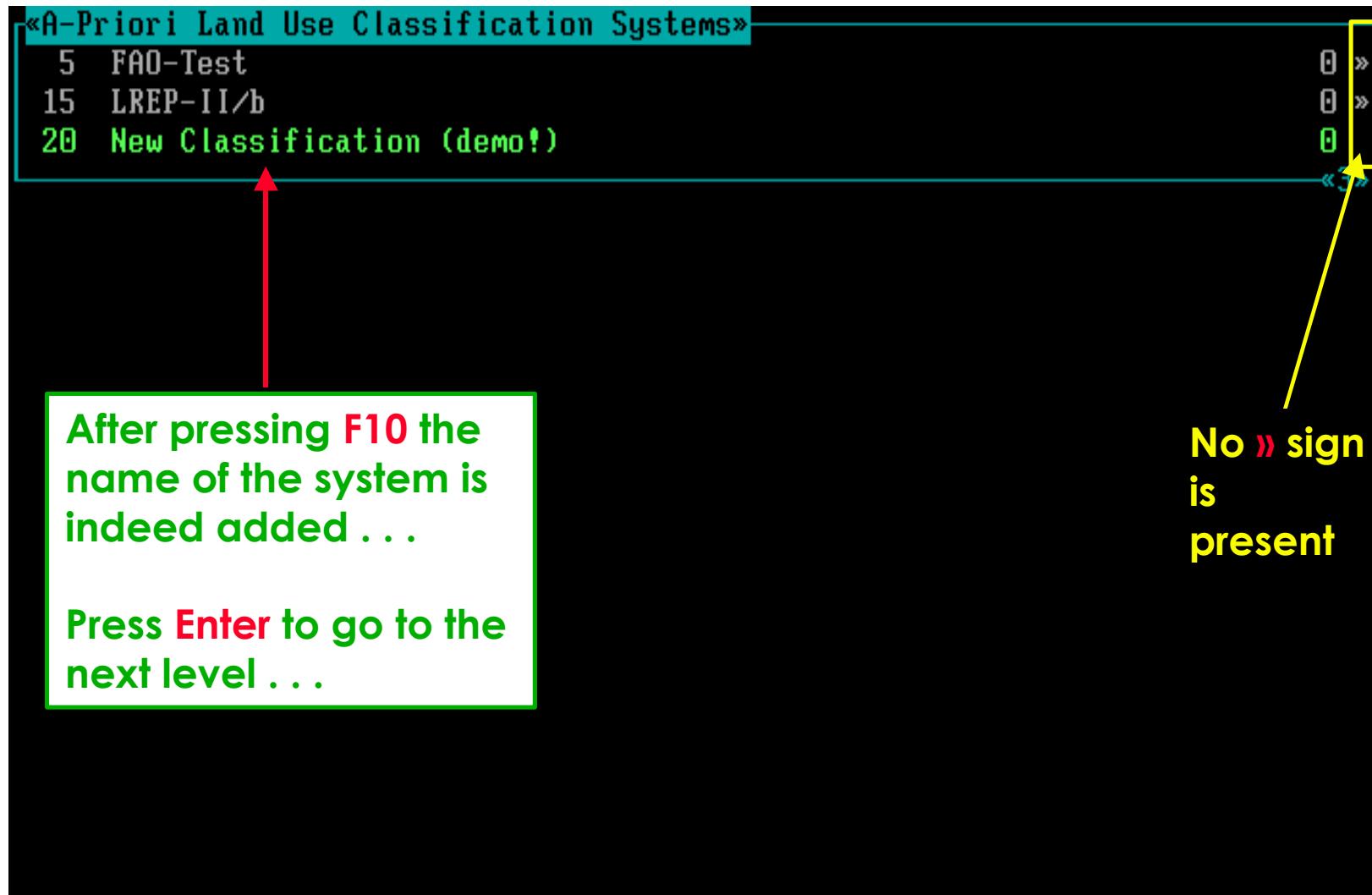
«Add/Edit an A-Priori Land Use Classification System»	
Code	: 20
Name	: New Classification (demo!)

The Name/Description of the A-Priori Land Use Classification System

F1=Help F10=Save

Only 2 edit fields are available in this edit screen

The specified Classification System contains no classes as yet . . .

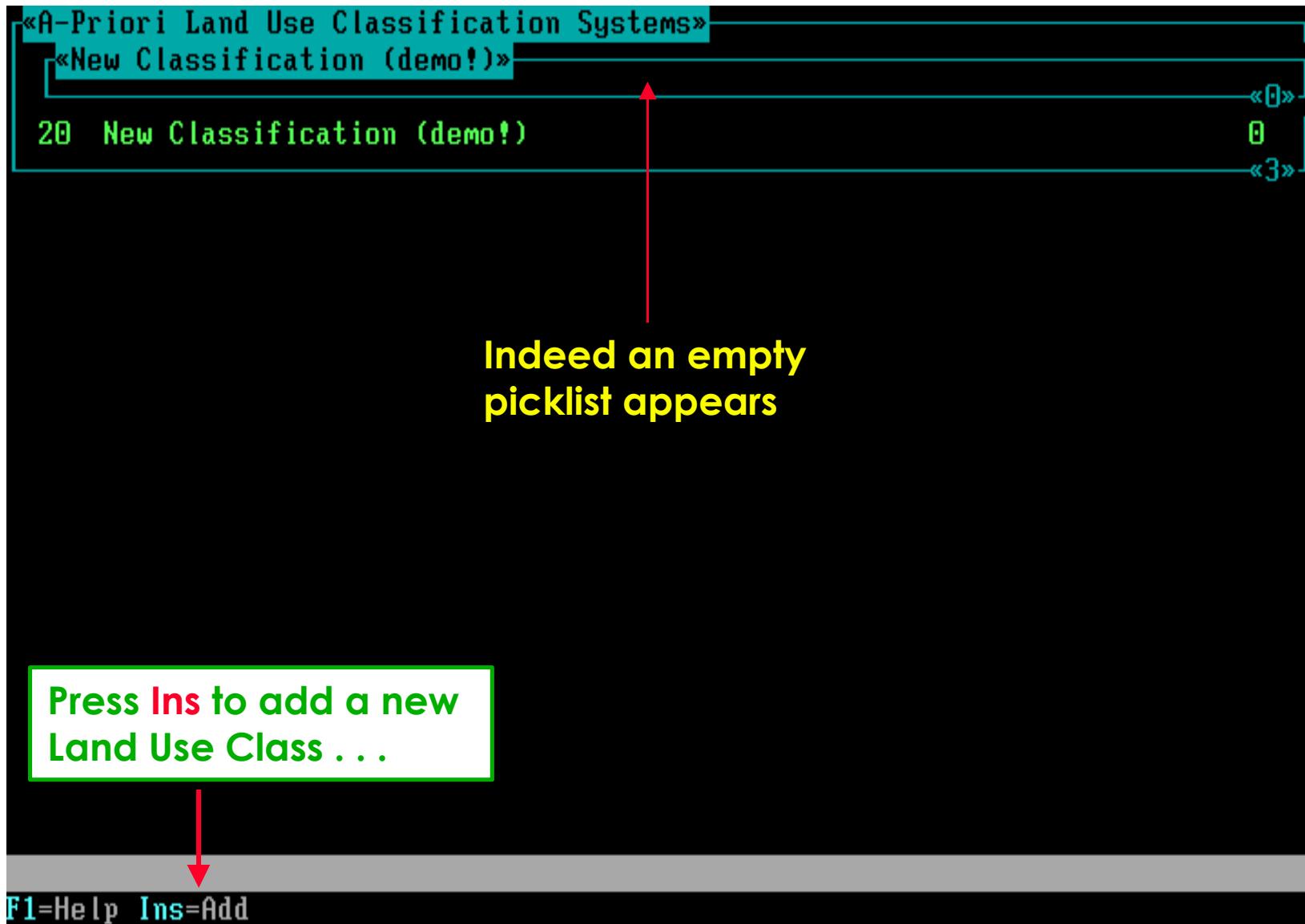


F1=Help F3=Print F4=Search F10=Edit Enter=Select Ins>Add Del>Delete

Software aspect no.-3 :

- 1 The structure of Land Use Classification Systems.
- 2 Add a new Land Use Classification System.
- 3 **Add a new Land Use Class.**
- 4 Land Use Purpose Classifiers.
- 5 Operation Sequence and Context Classifiers.
- 6 Printing Land Use Classes.

Next all aspects to specify a Land Use Class will be shown . . .



An Edit Screen appears with many prompts . . .

«A-Priori Land Use Classification Systems»
«New Classification (demo!)»

20 New Classification (demo!) The Ins key is pressed 0 «3»

«Add/Edit an A-Priori Land Use Class»

Code :	0
A-Priori LU Class :	
—Land Use Purpose Classifiers	
- Species/Service :	»
- Product/Benefit :	»
- Species/Service :	»
- Product/Benefit :	»
- Species/Service :	»
- Product/Benefit :	»
- Species/Service :	»
- Product/Benefit :	»
- Species/Service :	»
- Product/Benefit :	»
—Operation Sequence Classifiers	
—Context Classifiers	

The unique Code of this Item
F1=Help F8=Calc F10=Save

Three types of classifiers are made available

In this case, the **Minimum Data Entry Filter** is selected in Settings.

«A-Priori Land Use Classification Systems»

«New Classification (demo!)»

20 New Classification (demo!)

↑ Note:
This part of the screen
will not be shown
further in this demo

«Add/Edit an A-Priori Land Use Class»

Code	:	0
A-Priori LU Class	:	
—Land Use Purpose Classifiers—		
- Species/Service	:	»
Product/Benefit	:	»
- Species/Service	:	»
Product/Benefit	:	»
- Species/Service	:	»
Product/Benefit	:	»
- Species/Service	:	»
Product/Benefit	:	»
- Species/Service	:	»
Product/Benefit	:	»
- Species/Service	:	»
Product/Benefit	:	»
—Operation Sequence Classifiers—		
—Context Classifiers—		

No prompts are present for these two headings !!

In the filter no classifiers were pre-selected !!

The unique Code of this Item
F1=Help F8=Calc F10=Save

Software aspect no.-4 :

- 1 The structure of Land Use Classification Systems.
- 2 Add a new Land Use Classification System.
- 3 Add a new Land Use Class.
- 4 Land Use Purpose Classifiers.
- 5 Operation Sequence and Context Classifiers.
- 6 Printing Land Use Classes.

A Purpose is a [Species/Service - Product/Benefit] combination.

Land Use Purpose Classifiers . . .

Specify here the class number (1-240)

Specify here the name of the class

«Add/Edit an A-Priori Land Use Class»

Code : 0	
A-Priori LU Class : Land Use Purpose Classifiers	
- Species/Service : »	
Product/Benefit : » 1	
- Species/Service : »	
Product/Benefit : » 2	
- Species/Service : »	
Product/Benefit : » 3	
- Species/Service : »	
Product/Benefit : » 4	
- Species/Service : »	
Product/Benefit : » 5	
—Operation Sequence Classifiers	
—Context Classifiers	

Five Land Use Purposes can be specified. After saving them you may specify many more !!

The unique Code of this Item

F1=Help F8=Calc F10=Save

From the Glossary a Species/Service can be selected . . .

Land Use Purpose Classifiers . . .

«Add/Edit an A-Priori Land Use Class»

Code	:	5
A-Priori LU Class	:	Demo Class
—Land Use Purpose Clas	»	«Species/Services»
- Species/Service	»	N «Plants; »
Product/Benefit	:	» A Cereals;
- Species/Service	»	P Root and tuber plants;
Product/Benefit	:	» R Sago + related pl's for starch;
- Species/Service	»	C Pulses;
Product/Benefit	:	» S Vegetable oils and fats;
- Species/Service	»	Edible fruits and nuts;
Product/Benefit	:	» Vegetables;
- Species/Service	»	Spices and condiments;
Product/Benefit	:	» Essential oil plants;
—Operation Sequence Clas	»	Plants used for beverages/(F1);
—Context Classifiers	»	Plants used for chewing;

«38»

Family:

F1=Help F3=Print F4=Search F6=Unspecified Enter=Select

If any Cereal will do, than do not select further and press F6 . . .

Land Use Purpose Classifiers . . .

«Add/Edit an A-Priori Land Use Class»

Code : 5
A-Priori LU Class : Demo Class
—Land Use Purpose Clas «Species/Services»
- Species/Service : > N «Plants; »

«Cereals; »

Grain Amaranth; *Amaranthus caudatus* L.
Amaranthus hybridus L.
Fat Hen; *Chenopodium album* L.
Cyanotis axillaris (L.) Sweet
Buckwheat; *Fagopyrum esculentum* Moench
Job's Tears; *Coix lachryma-jobi* L.
Dactyloctenium aegyptium Richter
Jungle Rice; *Echinochloa colonum* (L.) Link
Japanese/Jap. Barnyard Millet; *Echinochloa frumentacea* (Roxburgh) Link
Finger Millet/Rapoko; *Eleusine indica* (L.) Gaertner f. *coracana* (L.) Hook.f?

Perhaps you do
not want to select
a specific cereal
from this picklist ?

«23»

Family: Amaranthaceae

F1=Help F3=Print F4=Search F6=Unspecified Enter=Select

From the Glossary a Product/Benefit can be selected ...

Land Use Purpose Classifiers ...

«Add/Edit an A-Priori Land Use Class»

Code	:	5
A-Priori LU Class	:	Demo Class
—Land Use Purpose Classifiers		
- Species/Service	:	Plants, Cereals, » -
Product/Benefit	:	»
- Species/Service	:	»
Product/Benefit	:	»
- Species/Service	:	»
Product/Benefit	:	»
- Species/Service	:	»
Product/Benefit	:	»
- Species/Service	:	»
Product/Benefit	:	»
—Operation Sequence Classifiers		
—Context Classifiers		

Indeed a whole
branch of the
Glossary Tree is
selected

Now you can specify
the cereal Product
aimed at by the land
user

The Second Part of the Purpose Classifier to define this A-Priori Land Use Class
F1=Help F10=Save Enter=Select

Use the F6 key as required; it is shown in the keybar when applicable.

Land Use Purpose Classifiers . . .

«Add/Edit an A-Priori Land Use Class»

Code	:	5
A-Priori LU Class	:	Demo Class
—Land Use Purpose Classifiers—		
- Species/Service	:	P «Products/Benefits/Materials»
Product/Benefit	:	» N «Plant Produce»
- Species/Service	:	» P U «Flowers/Fruits/Seeds»
Product/Benefit	:	» A F B «Grain (Cereals)»
- Species/Service	:	» P U B Milled/Cleaned
Product/Benefit	:	» O J F Not Milled/Cleaned
- Species/Service	:	» S F F Shelled
Product/Benefit	:	» W S F On the Cob
- Species/Service	:	» M F Threshed
Product/Benefit	:	» P I C Unthreshed
—Operation Sequence Classifiers—		
—Context Classifiers—		

Again you may not want to select a specific item from this picklist.

«6»
↓
«10»↓

F1=Help F3=Print F4=Search F6=Unspecified Enter=Select

Indeed, many [S/S - P/B] combinations can be specified !!

This is an example of a Multi-Purpose Land Use Class.

«Add/Edit an A-Priori Land Use Class»

Code	:	5
A-Priori LU Class	:	Demo Class
—Land Use Purpose Classifiers—		
- Species/Service	:	Plants, Cereals, » -
Product/Benefit	:	Flowers/Fruits/Seeds, <u>Grain</u> (Cereals), » -
- Species/Service	:	Plants, <u>Cereals</u> , » -
Product/Benefit	:	Plant Produce, <u>Vegetative parts</u> , » -
- Species/Service	:	Plants, <u>Pulses</u> , » -
Product/Benefit	:	Flowers/Fruits/Seeds, Beans (whole) (Pulses), » -
- Species/Service	:	» 
Product/Benefit	:	» 
- Species/Service	:	»
Product/Benefit	:	»
—Operation Sequence Classifiers—		
—Context Classifiers—		

One crop may be grown for several products, and simultaneously several crops may be grown !!

Do not fill these fields when you do not require them.

The First Part of the Purpose Classifier to define this A-Priori Land Use Class
F1=Help F6=Unspecified F10=Save Enter=Select

Here is the reason why [S/S - P/B] aspects are not included as options when specifying a Data Entry Filter. In that filter however, you can pre-select defined Land Use Classes.

Land Use Purpose Classifiers . . .

«Add/Edit an A-Priori Land Use Class»

Code	:	5
A-Priori LU Class	:	Demo Class
—Land Use Purpose Classifiers—		
- Species/Service	:	Plants, Cereals, » -
Product/Benefit	:	Flowers/Fruits/Seeds, Grain (cereals),
- Species/Service	:	Plants, Cereals, » -
Product/Benefit	:	Plant Produce, Vegetative parts, » -
- Species/Service	:	Plants, Pulses, » -
Product/Benefit	:	Flowers/Fruits/Seeds, Beans (whole) (Pulses), » -
- Species/Service	:	»
Product/Benefit	:	»
- Species/Service	:	»
Product/Benefit	:	»
—Operation Sequence Classifiers—		
—Context Classifiers—		

These defined Land Use Purposes act later as a Filter when specifying actual information on [S/S-P/B] combinations for an actual Land Use System description.

As shown later, each actual Land Use System description must be linked to a pre-defined a-priori Land Use Class.

The First Part of the Purpose Classifier to define this A-Priori Land Use Class
F1=Help F6=Unspecified F10=Save Enter=Select

Software aspect no.-5 :

- 1 The structure of Land Use Classification Systems.
- 2 Add a new Land Use Classification System.
- 3 Add a new Land Use Class.
- 4 Land Use Purpose Classifiers.
- 5 Operation Sequence and Context Classifiers.
- 6 Printing Land Use Classes.

In this case, the **Maximum Data Entry Filter** is selected in Settings.

Operation Sequence Classifiers ...

«Add/Edit an A-Priori Land Use Class»

Product/Benefit	:	»		
- Species/Service	:	»		
Product/Benefit	:	»		
- Species/Service	:	»		
Product/Benefit	:	»		
- Species/Service	:	»		
Product/Benefit	:	»		
—Operation Sequence Classifiers				
- 1:	Crop Production	,	»	-
- 2:	Livestock Production	,	»	-
- 3:	Extraction/Collection/Grazing	,	»	-
- 4:	Conservation	,	»	-
- 5:	Settlement and Related Uses	,	»	-
- 6:	Recreation and Tourism	,	»	-
- 7:	Labour Intensity	,	»	-
- 8:	Cultivation Factor	,	»	-

Many prompts are present under this heading !!

Each prompt corresponds with an item at the **first level** in the classifiers Glossary Tree !!

The Operation Sequence Classifiers used to define this A-Priori Land Use Class
F1=Help F10=Save Enter=Select

Operation Sequence Classifiers ...

«Add/Edit an A-Priori Land Use Class»

Product/Benefit	:	»
- Species/Service	:	»
Product/Benefit	:	»
- Species/Service	:	»
Product/Benefit	:	»
- Species	«Crop Production»	
Product	N	«Yes»
Operat	Y	«Temporary (arable) Cropping»
- 1:	C	T S «Multiple Cropping»
- 2:	Liv	T M Intercropping (+)
- 3:	Ext	P Relay Intercropping (/)
- 4:	Con	Per Sequential Cropping (-)
- 5:	Set	Per Mix of the Others (+, /, -)
- 6:	Rec	Cro
- 7:	Ø L	Cropping in Nurseries
- 8:	Ø C	

Each Glossary Branch goes from general to more specific and can thus be many levels deep ...

Again you may not want to select a specific item from this picklist; then use F6.

F1=Help F3=Print F4=Search F6=Unspecified Enter=Select

Each Glossary Branch (Prompt) must be mutually exclusive !!

Operation Sequence Classifiers . . .

«Add/Edit an A-Priori Land Use Class»

Product/Benefit	:	»
- Species/Service	:	»
Product/Benefit	:	»
- Species/Service	:	»
Product/Benefit	:	»
- Species/Service	:	»
«Settlement and Related Uses»		
Product	None	»
Operat	Yes	»
»		
- 1:	»	
- 2:	Livestock Production, » -	
- 3:	Extraction/Collection/Grazing, » -	
- 4:	Conservation, » -	
- 5:	Settlement and Related Uses, None	
- 6:	Recreation and Tourism, » -	
- 7:	Labour Intensity, » -	
- 8:	Cultivation Factor, » -	
»		
«2»		

must start with simple options like: (Yes-No), (Done-Not Done), (Applied-Not Applied), etc.

F1=Help F3=Print F4=Search F6=Unspecified Enter=Select

The first 6 Classifiers are main classifiers (all fully independent), while the others are possible modifiers (also independent).

The Context Classifiers behave identical to the Operation Sequence Classifiers. Use of them is not recommended !!

Context Classifiers . . .

«Add/Edit an A-Priori Land Use Class»

- 15: ↗ Irrigation Structures, » -
- 16: ↗ Water Applied, » -
- 17: ↗ Quality of Water Applied, » -
- 18: ↗ Chemical Fertilizers Applied, » -
- 19: ↗ Organic Manures Applied, » -
- 20: ↗ Herbicides Applied, » -
- 21: ↗ Mulch Applied, » -

—Context Classifiers—

- 1: Tenancy Arrangement, » -
- 2: **Market Orientation**, » -
- 3: Capital Intensity, » -
- 4: Infrastructure Requirements, » -
- 5: Goals of Holder, » -
- 6: Attitude of Holder, » -
- 7: Technical Knowledge of Holder, » -
- 8: Input Availability, » -

When a classifier (modifier) is not present in this list, then add it if necessary in the Glossary and make selection possible in your Data Entry Filter.

The Context Classifiers used to define this A-Priori Land Use Class

F1=Help F10=Save Enter=Select

Of the Context Classifiers only one is specified and of the shown Operation Sequence Classifiers none is specified.

Context Classifiers . . .

«Add/Edit an A-Priori Land Use Class»

- 15: \$ Irrigation Structures, » -
- 16: \$ Water Applied, » -
- 17: \$ Quality of Water Applied, » -
- 18: \$ Chemical Fertilizers Applied, » -
- 19: \$ Organic Manures Applied, » -
- 20: \$ Herbicides Applied, » -
- 21: \$ Mulch Applied, » -

—Context Classifiers—

- 1: Tenancy Arrangement, » -
- 2: **Market Orientation, Subsistence**
- 3: Capital Intensity, » -
- 4: Infrastructure Requirements, » -
- 5: Goals of Holder, » -
- 6: Attitude of Holder, » -
- 7: Technical Knowledge of Holder, » -
- 8: Input Availability, » -

Just specify the classifier that you require.

Do not be tempted to define all listed classifiers !!

When a class is properly defined, press F10 to save it.

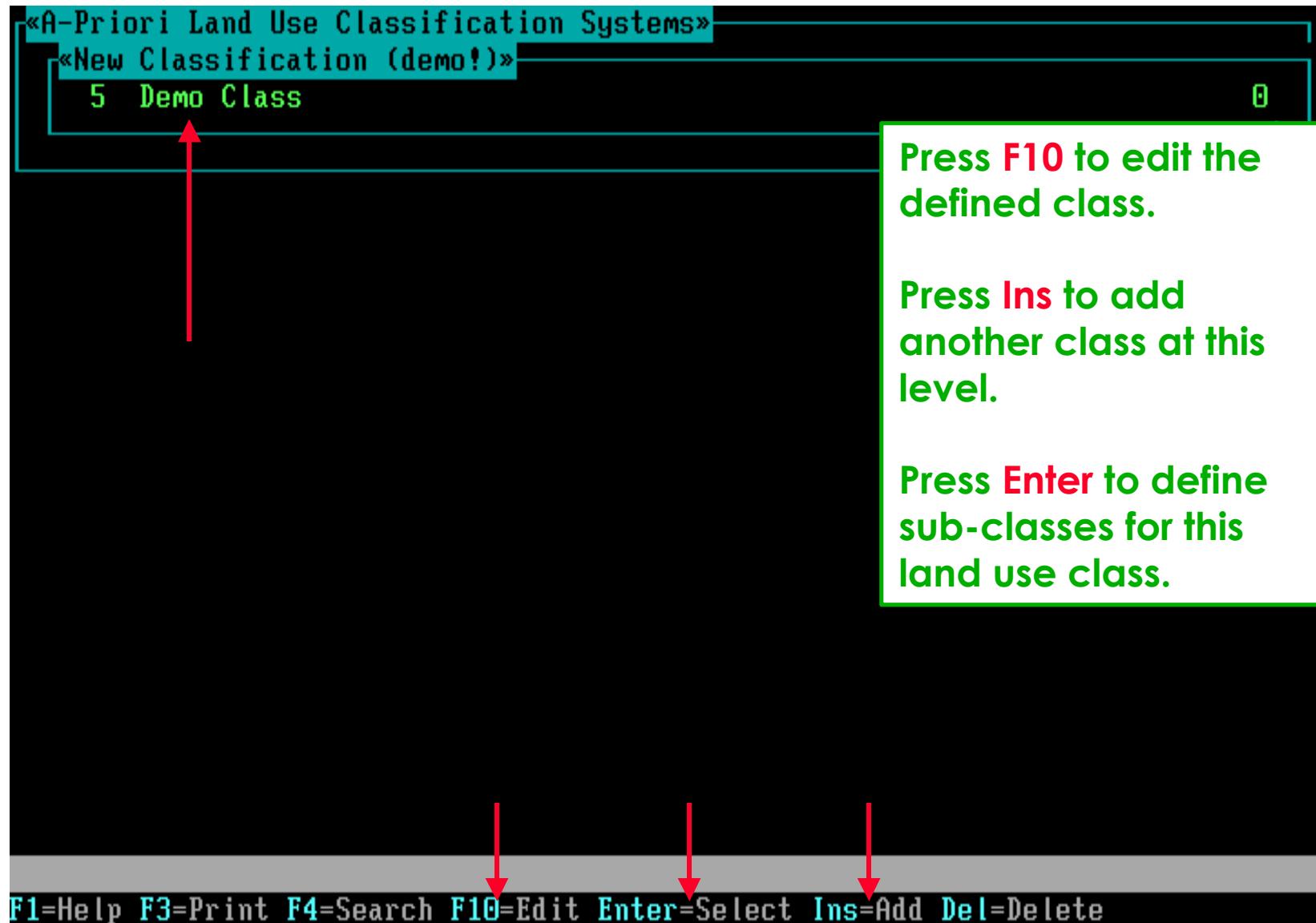
The Context Classifiers used to define this A-Priori Land Use Class

F1=Help F10=Save Enter=Select

More on software aspect no.-3 :

- 1 The structure of Land Use Classification Systems.
- 2 Add a new Land Use Classification System.
- 3 **Add a new Land Use Class.**
- 4 Land Use Purpose Classifiers.
- 5 Operation Sequence and Context Classifiers.
- 6 Printing Land Use Classes.

The defined Land Use Class is now included in the Picklist.



Shown is the Edit Screen to specify a sub-class for the earlier defined Land Use Class called Demo Class .

«A-Priori Land Use Classification Systems»
«New Classification (demo!)»
«Demo Class»

Demo Class was selected, Enter was pressed, and then Ins was pressed.

«Add/Edit an A-Priori Land Use Class»

Code	:	0
A-Priori LU Class	:	
—Land Use Purpose Class	:	Species/Services
- Species/Service	:	P «Plants; »
Product/Benefit	:	Cereals;
- Species/Service	:	Pulses;
Product/Benefit	:	
- Species/Service	:	
Product/Benefit	:	
- Species/Service	:	
Product/Benefit	:	
- Species/Service	:	
Product/Benefit	:	
—Operation Sequence Classifiers	:	
- 1:	Production, Yes, Temporary (arable) Cropping	
- 2:	Settlement and Related Uses, None	

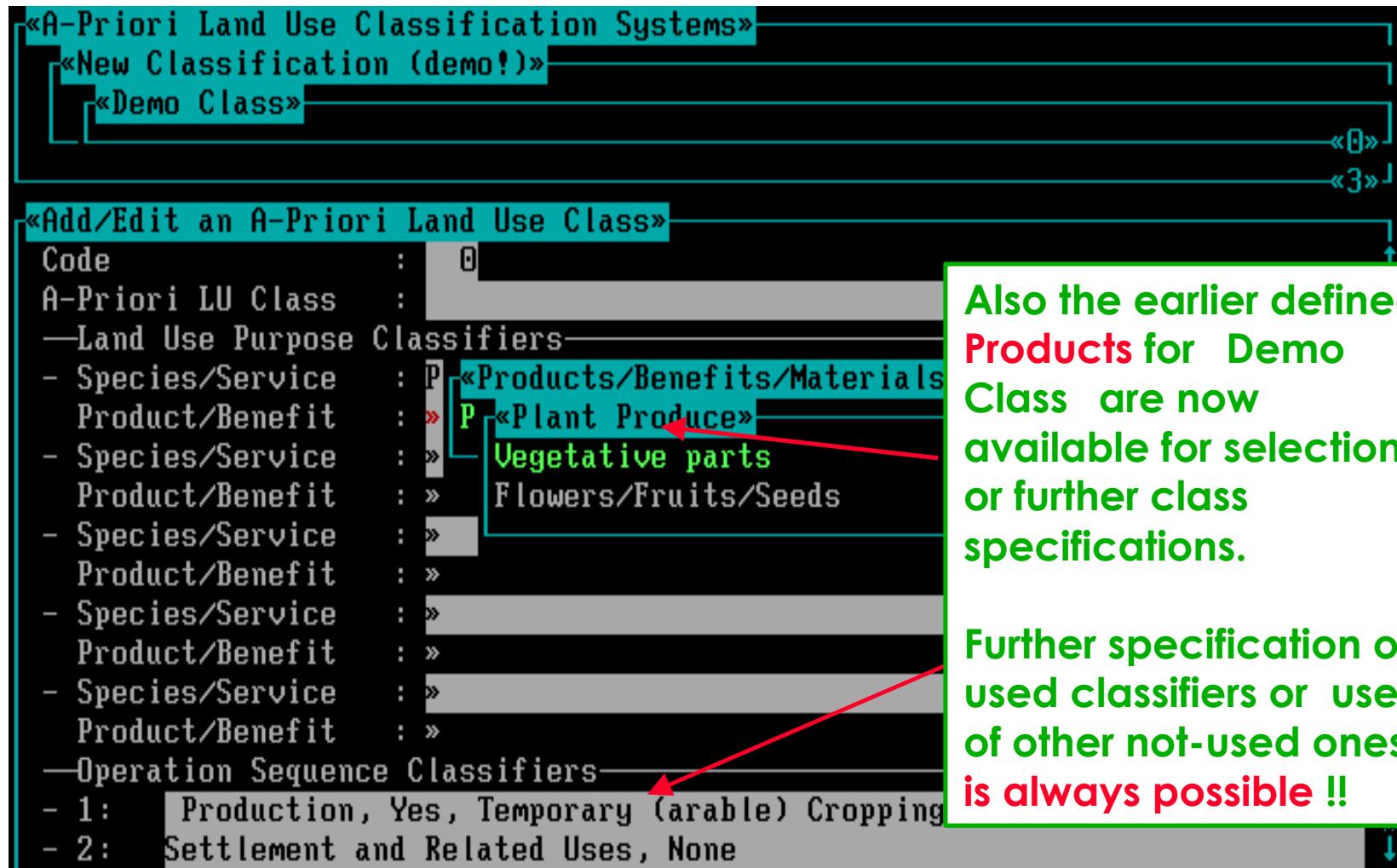
Only the Species as selected for Demo Class are now available for selection or further class specifications.

Other classifiers are automatically copied because they must remain valid !!

Family:

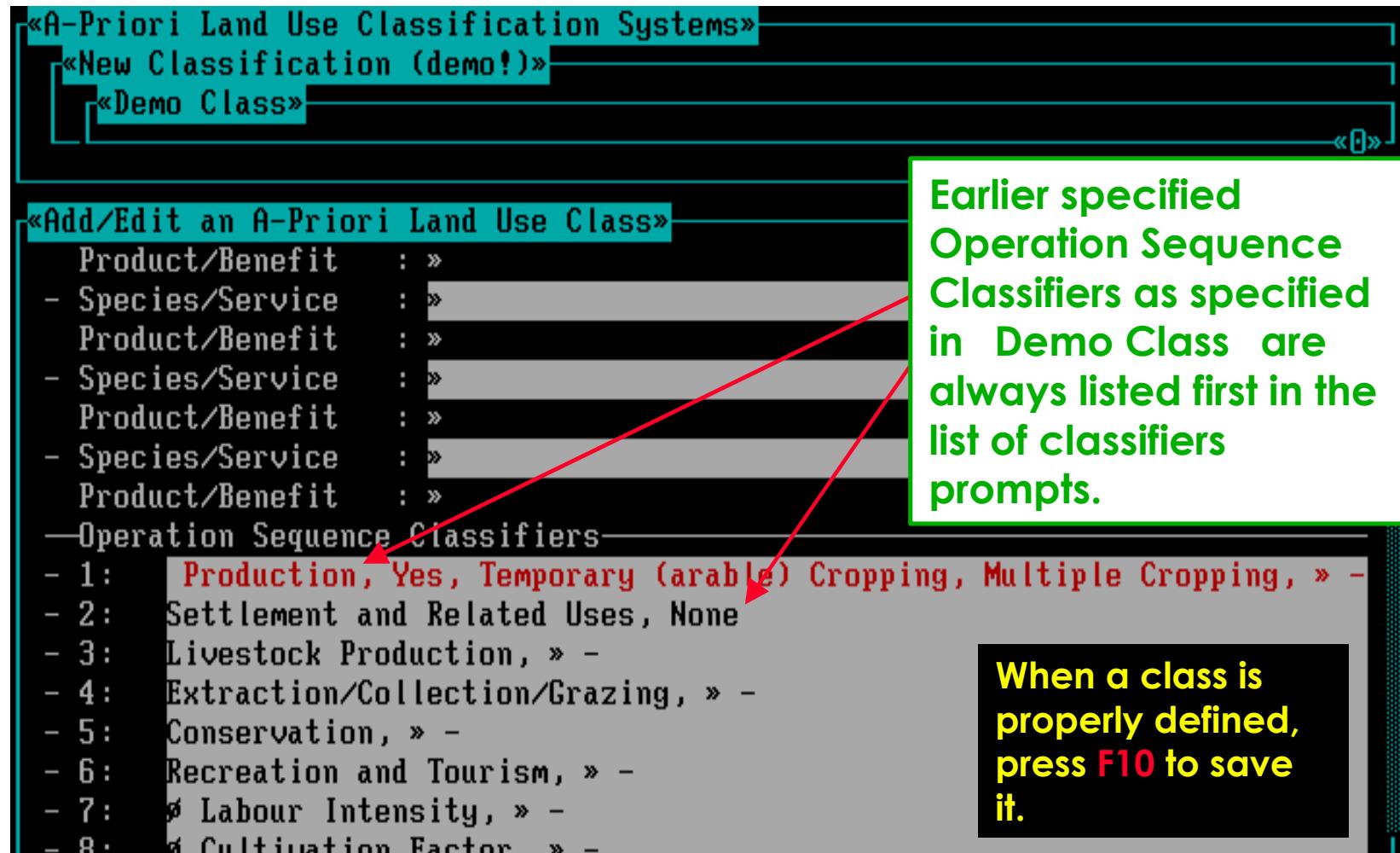
F1=Help F3=Print F4=Search F6=Unspecified Enter=Select

It is important to understand the link between a class and its subclasses. The software checks the data integrity !!



F1=Help F3=Print F4=Search F6=Unspecified Enter=Select

This is the last information on how to specify a Land Use Class.

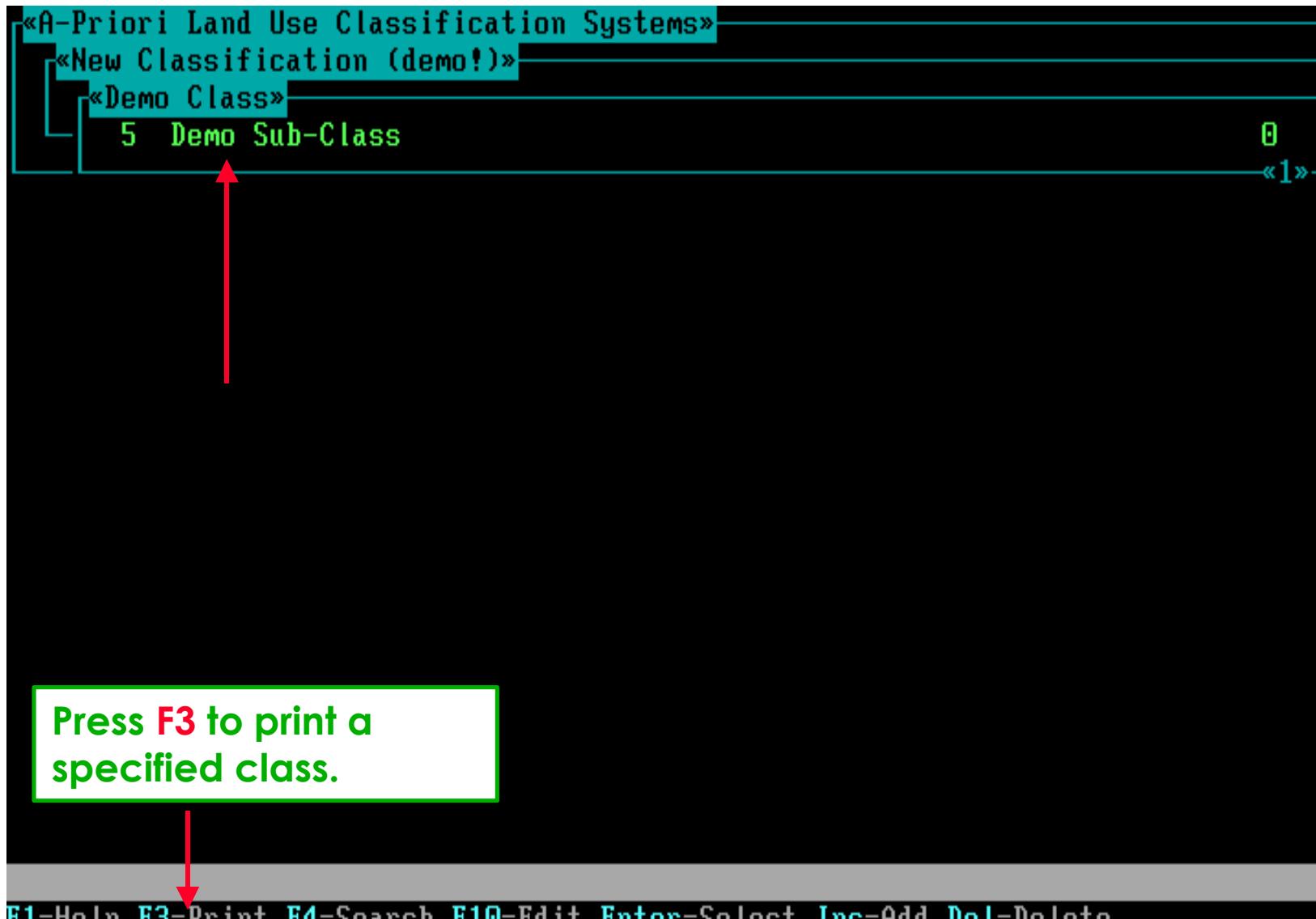


The Operation Sequence Classifiers used to define this A-Priori Land Use Class
F1=Help F10=Save Enter=Select

Software aspect no.-6 :

- 1 The structure of Land Use Classification Systems.
- 2 Add a new Land Use Classification System.
- 3 Add a new Land Use Class.
- 4 Land Use Purpose Classifiers.
- 5 Operation Sequence and Context Classifiers.
- 6 Printing Land Use Classes.

Demo Sub-Class is now also present in the Picklist.



Make your selection of which classes should be printed . . .

«A-Priori Land Use Classification Systems»

5 FAO-Test	0 »
15 LREP-II/b	0 »
20 New Classification (demo!)	0 »

«3»

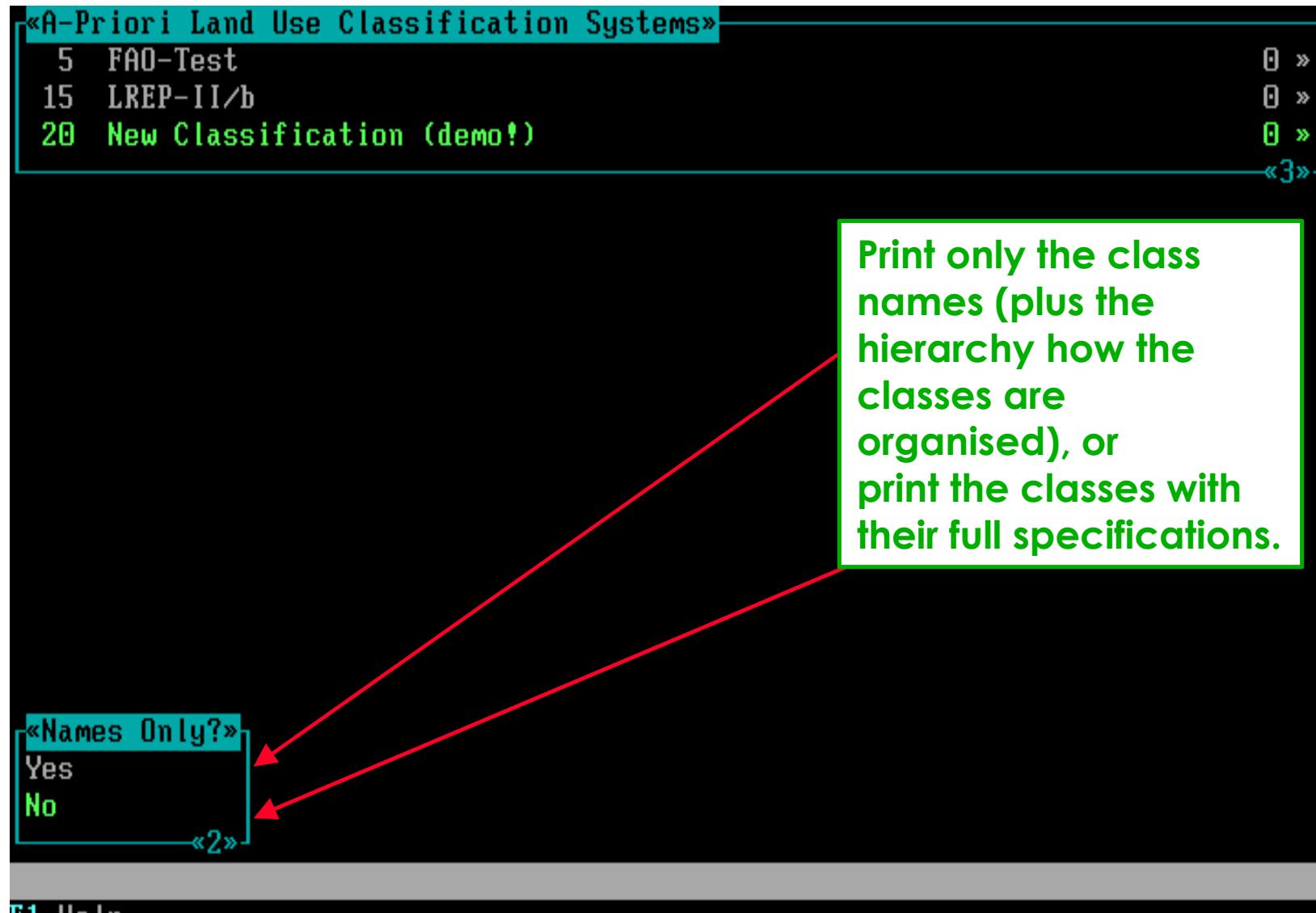
One single class, all classes within a single Picklist, or all classes of a branch of a hierarchical tree can be printed as required.

«Print A-Priori Land Use Class»

Highlighted Item without related Information at lower Levels
All Items without related Information at lower Levels
Highlighted Item and related Information at lower Levels
All Items with related Information at lower Levels

«4»

Make your selection of which info by class should be printed . . .



Make your selection of where the info should be printed . . .

```
«A-Priori Land Use Classification Systems»
 5  FAO-Test          0 »
 15 LREP-II/b         0 »
 20 New Classification (demo!)  0 »
                                         «3»
```

```
«Select Output Device for A-Priori Land Use Classes»
Screen
New File
Append to File
Printer 1
Printer 2
Printer 3
                                         «6»
```

F1=Help Enter=Select

This is an example print of a specified Land Use Class.

A-PRIORI LAND USE CLASSES

Date: 27/02/1996 Time: 11:59:25

=Code: 20: New Classification (demo!)=====

Code : 5

A-Priori LU Class : Demo Class

—Land Use Purpose Classifiers—

- Species/Service : Plants, Cereals, » -

Product/Benefit : Plant Produce, Vegetative parts, » -

- Species/Service : Plants, Cereals, » -

Product/Benefit : Plant Produce, Flowers/Fruits/Seeds, Grain (Cereals), »
-

- Species/Service : Plants, Pulses, » -

Product/Benefit : Plant Produce, Flowers/Fruits/Seeds, Beans (whole) (Pulses), » -

—Operation Sequence Classifiers—

- 1 : Crop Production, Yes, Temporary (arable) Cropping, Multiple Cropping,
» -

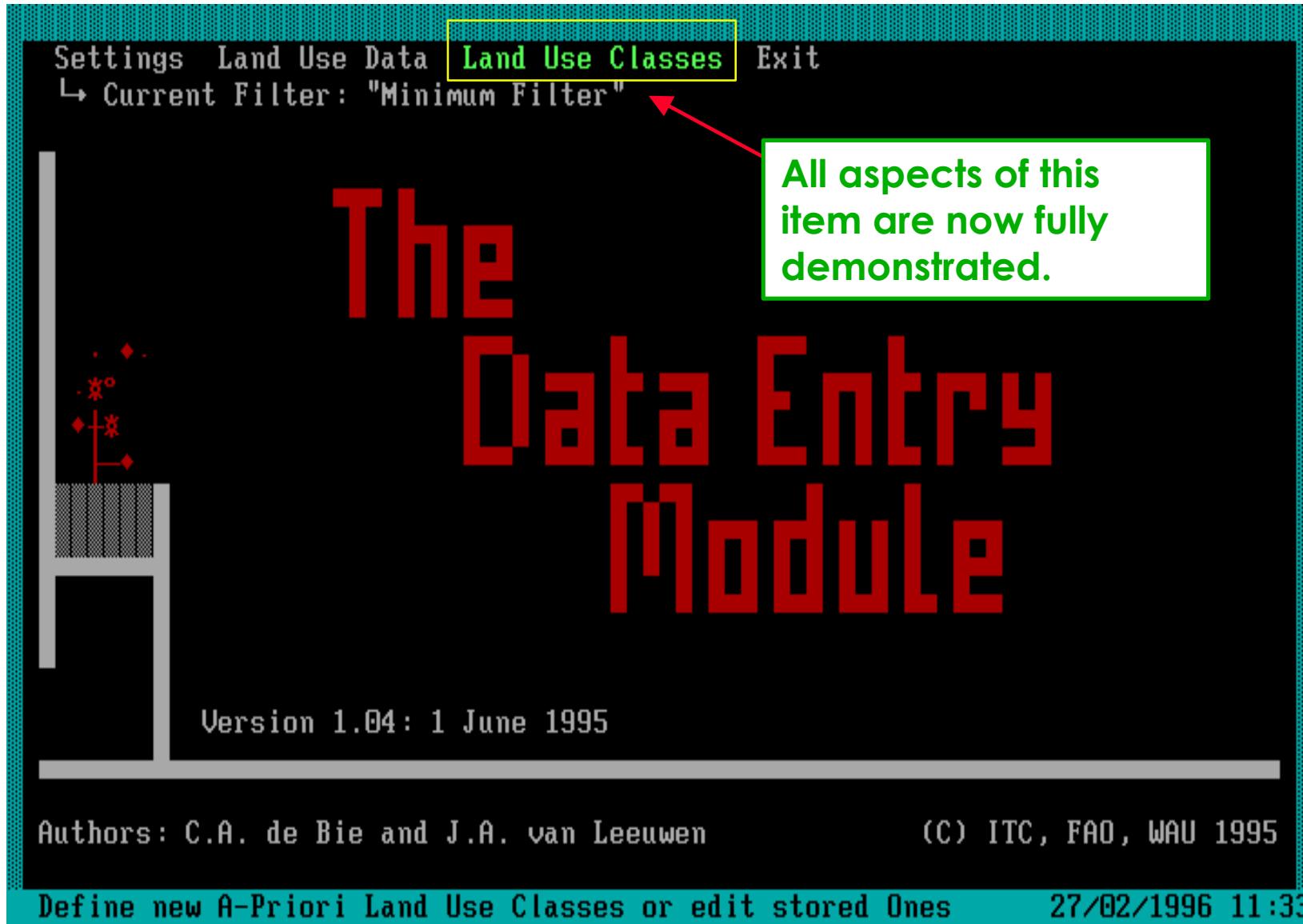
- 2 : Settlement and Related Uses, None

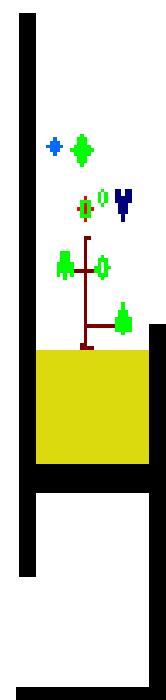
—Context Classifiers—

- 1 : Market Orientation, Subsistence

Only the data that
were specified and
were requested are
included in prints.

This is the end of the demo on Land Use Classes . . .





The Land Use Database

End of Demo-4 ... Thank You

